Natural Stormwater Mangement for Residential Properties

2/4/2017

Landowner Workshop



Presentation Highlights

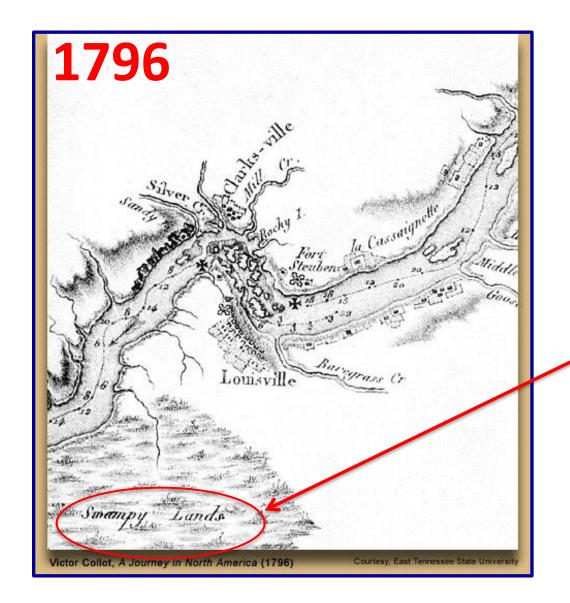
- Traditional Stormwater Management
- Natural Stormwater Management
- Why Should I Care?



Traditional Stormwater Management

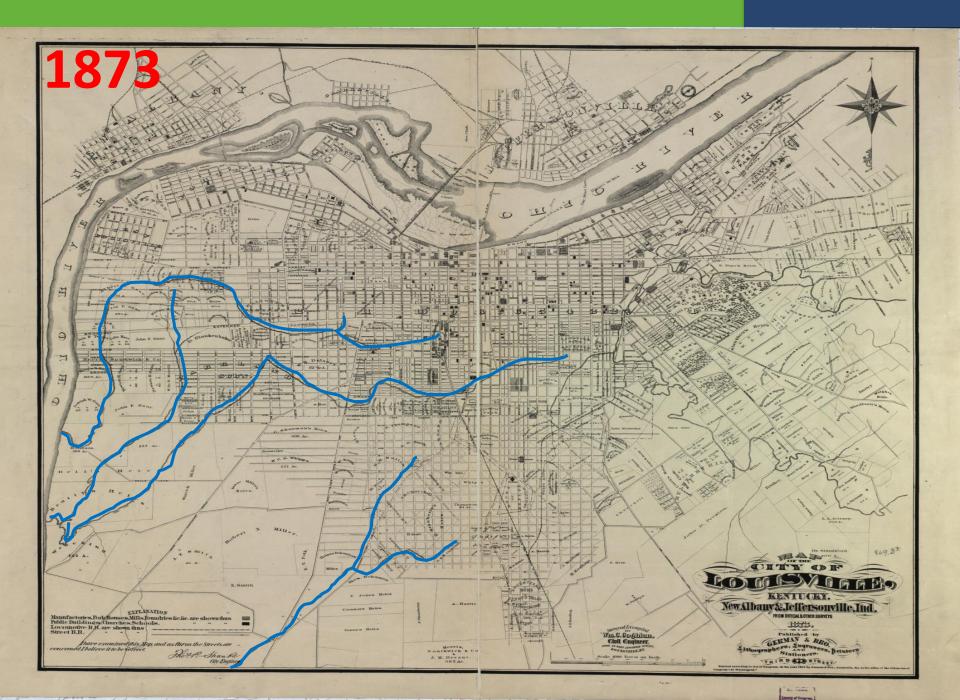


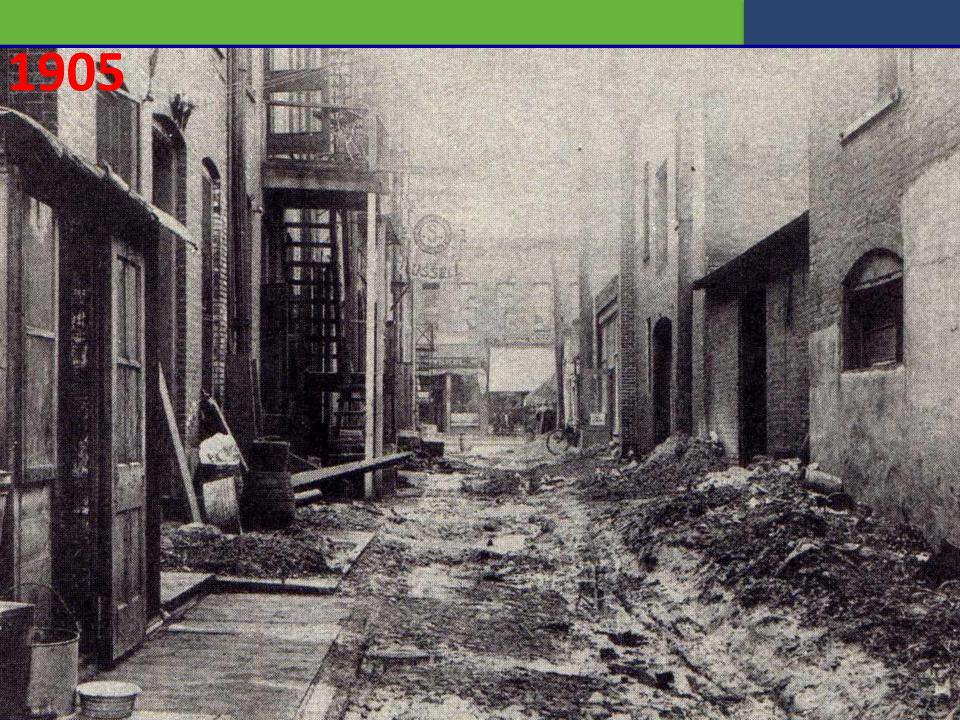
Where We Started



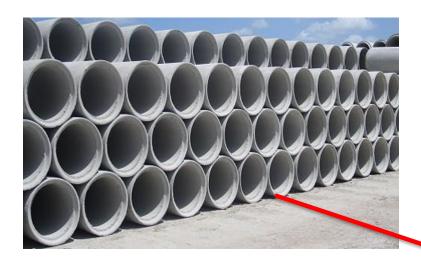
"Swampy Lands"







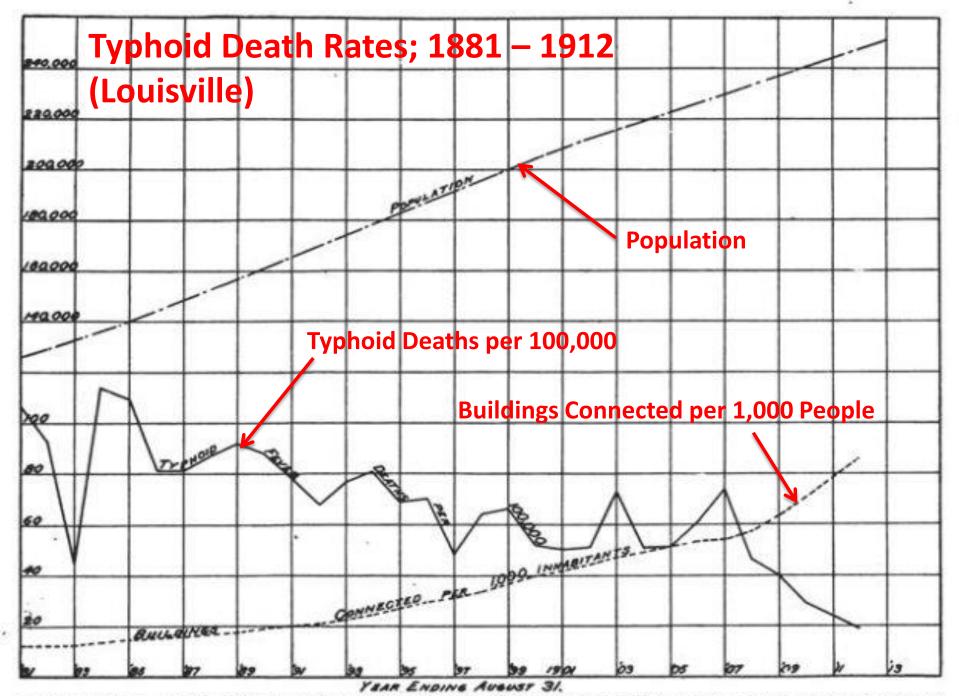
Lots of pipes!



Get the water away from people and into the nearest stream as fast as possible.









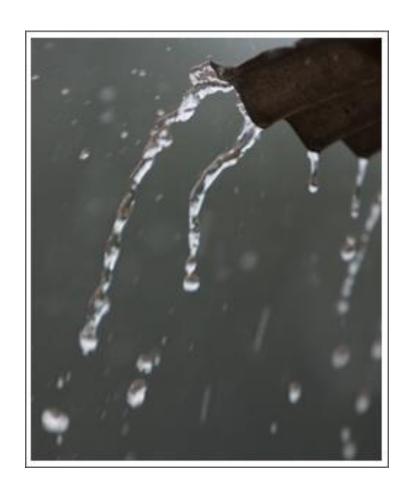


Filter runoff before it can carry pollutants to waterways, reduce excess runoff.





- Hard surfaces don't absorb rain
 - Roofs
 - Driveways/Parking Lots
 - Patios
- Development introduces pollutants
 - Oil, Gas
 - Trash, Debris
 - Sediment
 - Metals, Chemicals
 - Excess runoff
 - Heat
- Rain carries pollutants to waterway





Rain Gardens:

- Use deep-rooted native plants to absorb and filter runoff
- Provide habitat
- Aesthetic value





Rain Garden Tips:

- Ensure there is an appropriate water source (downspout)
- Soil type is important, may need to be amended
- Usually 8 to 12 inches deep
- Locate at least 10 feet away from structures with basements
- Use a variety of native plant species, ensure location will allow them to thrive
- Use in combination with rain barrel to ensure health during drought





Why Should I Care?



Attractive, Functional Landscape

- Rain gardens soak up stormwater runoff
- Rain gardens remove pollutants from stormwater runoff that damage the environment
- Rain gardens are attractive, value-adding landscaping features





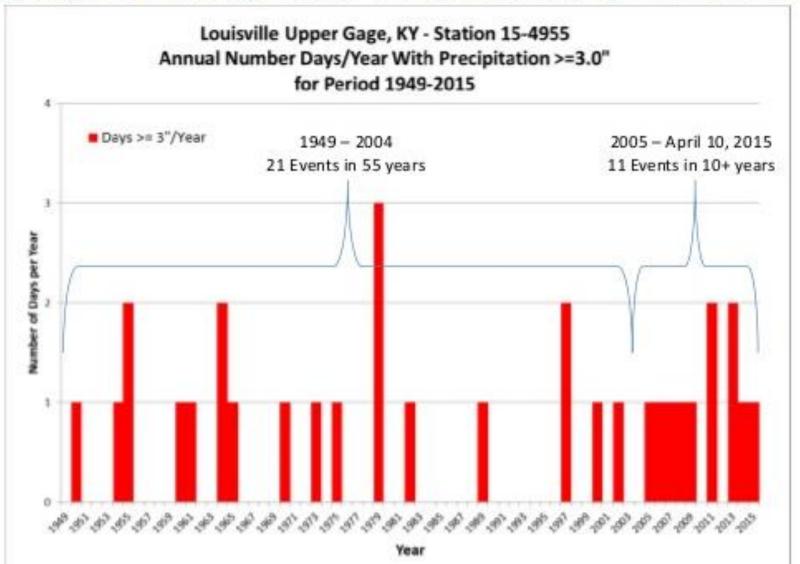
Stormwater Pollution

- Sediment is the #1 pollutant in Kentucky
- Major effect on usability of waterways, aquatic life, habitat





Increased Frequency of Extreme Storms Highlights Drainage and Floodplain Management Needs



Questions?

